

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
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Application Serial Number: 10/543,078  
Source: PCT  
Date Processed by STIC: 08/02/2005

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## RAW SEQUENCE LISTING

DATE: 08/02/2005

PATENT APPLICATION: US/10/543,078

TIME: 15:00:57

Input Set : A:\Sequence listing as filed.txt

Output Set: N:\CRF4\08022005\J543078.raw

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3 <110> APPLICANT: KOHARA, Michinori
4     WATANABE, Tsunamasa
5     TAIRA, Kazunari
6     MIYAGISHI, Makoto
7     SUDO, Masayuki
9 <120> TITLE OF INVENTION: Oligoribonucleotide or Peptide Nucleic Acid Inhibiting the
10    Function of Hepatitis C Virus
12 <130> FILE REFERENCE: 382.1047
C--> 14 <140> CURRENT APPLICATION NUMBER: US/10/543,078
C--> 15 <141> CURRENT FILING DATE: 2005-07-21
17 <150> PRIOR APPLICATION NUMBER: JP 2003/016750
18 <151> PRIOR FILING DATE: 2003-01-24
20 <160> NUMBER OF SEQ ID NOS: 56
22 <170> SOFTWARE: PatentIn Ver. 2.1
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25 <211> LENGTH: 500
26 <212> TYPE: DNA
27 <213> ORGANISM: Hepatitis C virus
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32 cccccctccc gggagagcca tagtggtctg cggaaccggg gagtacaccg gaattgccag 180
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34 gcaagactgc tagccgagta gtgttggtgc gcgaaaggcc ttgtggtact gcctgatagg 300
35 gtgcttgcca gtgccccggg aggtctcgta gaccgtgcac catgagcacg aatcctaaac 360
36 ctcaaaaaaa aaacaaacgt aacaccaacc gtcgcccaca ggacgtcaag ttcccgggtg 420
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44 <213> ORGANISM: Hepatitis C virus
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49 cgggagagcc atagtggctc gcggaaccgg tgagtacacc ggaattgccg ggacgaccgg 180
50 gtcccttctt ggatcaaccc gctcaatgcc tggagatttg ggcgtgcccc cgcgagactg 240
51 ctagccgagt agtggttggg cgcgaaaggc cttgtggtac tgccctgatag ggtgcttgcg 300
52 agtgcccccg gaggtctcgt agaccgtgca ccatgagcac gaatcctaaa cctcaaagaa 360
53 aaaccaaacg taacaccaac cgccgcccac aggacgtcaa gttcccgggc ggtggtcaga 420
54 tcgttggtgg agtttacctg ttgcgcgcga ggggccccag gttgggtgtg cgcgcgcccc 480
55 ggaagacttc cgagcggtcg                                     500
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60 &lt;212&gt; TYPE: DNA

61 &lt;213&gt; ORGANISM: Hepatitis C virus

63 &lt;400&gt; SEQUENCE: 3

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66 gagagccata gtgggtctgcg gaaccgggtga gtacaccgga attgccagga cgaccgggtc 180
67 ctttcttgga tcaaccgcgt caatgcctgg agatttgggc gtgccccgc gagactgcta 240
68 gccgagtagt gttgggtcgc gaaaggcctt gtggtactgc ctgatagggt gcttgcgagt 300
69 gccccgggag gtctcgtaga ccgtgcatca tgagcacaaa tcctaaacct caaagaaaaa 360
70 ccaaacgtaa caccaaccgc cgcccacagg acgttaagtt cccgggcggt ggtcagatcg 420
71 ttggtggagt ttacctgttg ccgcgcaggg gcccaggtt ggggtgtcgc gcgactagga 480
72 agacttccga gcggtcgcaa                                     500
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75 &lt;210&gt; SEQ ID NO: 4

76 &lt;211&gt; LENGTH: 500

77 &lt;212&gt; TYPE: DNA

78 &lt;213&gt; ORGANISM: Hepatitis C virus

80 &lt;400&gt; SEQUENCE: 4

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82 tgtcttcacg cagaaagcgt ctagccatgg cgtagtatg agtgctcgtc agcctccagg 120
83 acccccctc ccgggagagc catagtgggtc tgcggaaccg gtgagtacac cggaattgcc 180
84 aggacgaccg ggtcctttct tggatcaacc cgctcaatgc ctggagattt gggcgtgccc 240
85 ccgcgagact gctagccgag tagtggtggg tcgcgaaagg ccttggtgta ctgcctgata 300
86 ggggtgcttg gagtgccccg ggagggtctc tagaccgtgc atcatgagca caaatcccaa 360
87 accccaaaga aaaaccaaac gtaacaccaa ccgtcgccca caggacgtca agttcccggg 420
88 tgggtggtcag atcgttggtg gagtttacct gttgccgcgc aggggccccca ggttgggtgt 480
89 gcgcgcgact aggaagactt                                     500
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92 &lt;210&gt; SEQ ID NO: 5

93 &lt;211&gt; LENGTH: 500

94 &lt;212&gt; TYPE: DNA

95 &lt;213&gt; ORGANISM: Hepatitis C virus

97 &lt;400&gt; SEQUENCE: 5

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99 tcttcacgca gaaagcgtct agccatggcg ttagtatgag tgtcgtacag cctccaggcc 120
100 cccccctccc gggagagcca tagtgggtct cggaaccggt gagtacaccg gaattgccgg 180
101 gaagaccggg tcctttcttg gataaaccgc ctctatgcc ggccatttgg gcgtgcccc 240
102 gcaagactgc tagccgagta gcgttgggtt gcgaaaggcc ttgtggtact gcctgatagg 300
103 gtgcttgcca gtgccccggg aggtctcgta gaccgtgcac catgagcaca aatcctaaac 360
104 ctcaaagaaa aaccacaaaga aacactaacc gtcgcccaca agacgttaag tttccgggcg 420
105 gcggccagat cgttggcgga gtatacttgt tgccgcgtag gggccccaga ttgggtgtgc 480
106 gcacagcaag gaagacttcg                                     500
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109 &lt;210&gt; SEQ ID NO: 6

110 &lt;211&gt; LENGTH: 500

111 &lt;212&gt; TYPE: DNA

112 &lt;213&gt; ORGANISM: Hepatitis C virus

114 &lt;400&gt; SEQUENCE: 6

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115 acccgcccc taataggggc gacactccgc catgaatcac tcccctgtga ggaactactg 60
116 tcttcacgca gaaagcgtct agccatggcg ttagtatgag tgtcgtacag cctccaggcc 120
117 cccccctccc gggagagcca tagtgggtct cggaaccggt gagtacaccg gaattgccgg 180
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118 gaagactggg tcctttcttg gataaaccca ctctatgccc ggccatttgg gcgtgcccc 240
119 gcaagactgc tagccgagta gcgttgggtt gcgaaaggcc ttgtggtact gcctgatagg 300
120 gtgcttgcca gtgccccggg aggtctcgta gaccgtgcac catgagcaca aatcctaaac 360
121 ctcaaagaaa aaccacaga aacactaacc gtcgcccaca agacgttaag tttccgggcg 420
122 ggggccagat cggtggcgga gtatacttgt tgccgcgcag gggccctaga ttgggtgtgc 480
123 gcacgacaag gaagacttcg 500
126 <210> SEQ ID NO: 7
127 <211> LENGTH: 500
128 <212> TYPE: DNA
129 <213> ORGANISM: Hepatitis C virus
131 <400> SEQUENCE: 7
132 acccgccct aatagggcg acactccgcc atgaaccact cccctgtgag gaactactgt 60
133 cttcacgcag aaagcgtcta gccatggcgt tagtatgagt gtcgtacagc ctccaggccc 120
134 cccctcccg ggagagccat agtggctctgc ggaaccggtg agtacaccgg aattgccggg 180
135 aagactgggt cctttcttg ataaaccac tctatgccc gtcatttggg cgtgcccccg 240
136 caagactgct agccgagtag cggttgggtt cgaaaggcct tgtggtactg cctgataggg 300
137 tgcttgcgag tgccccggga ggtctcgtag accgtgcacc atgagcaca atcctaaacc 360
138 tcaaagaaaa accaaaagaa acaccaaccg tcgcccacaa gacgttaagt ttcggggcg 420
139 cggccagatc gttggcgga tatacttgtt gccgcgcag gggcccaggt tgggtgtgc 480
140 cgcgacaagg aagacttcg 500
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144 <211> LENGTH: 500
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146 <213> ORGANISM: Hepatitis C virus
148 <400> SEQUENCE: 8
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150 cttcacgcag aaagcgccta gccatggcgt tagtatgagt gtcgtacagc ctccaggccc 120
151 cccctcccg ggagagccat agtggctctgc ggaaccggtg agtacaccgg aattgccggg 180
152 aagactgggt cctttcttg ataaaccac tctatgccc gccatttggg cgtgcccccg 240
153 caagactgct agccgagtag cggttgggtt cgaaaggcct tgtggtactg cctgataggg 300
154 cgcttgcgag tgccccggga ggtctcgtag accgtgcacc atgagcaca atcctaaacc 360
155 tcaaagaaaa accaaaagaa acaccaaccg tcgcccagaa gacgttaagt tccggggcg 420
156 cggccagatc gttggcgga tatacttgtt gccgcgcag gggcccaggt tgggtgtgc 480
157 cgcgacaagg aaaacttcg 500
160 <210> SEQ ID NO: 9
161 <211> LENGTH: 500
162 <212> TYPE: DNA
163 <213> ORGANISM: Hepatitis C virus
165 <400> SEQUENCE: 9
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167 tcttcacgca gaaagcgtct agccatggcg ttagtatgag tgcgtacag cctccaggcc 120
168 cccctccc gggagagcca tagtggctct cggaaccggt gagtacaccg gaattgccgg 180
169 gaagactggg tcctttcttg gataaaccca ctctatgccc ggccatttgg gcgtgcccc 240
170 gcaagactgc tagccgagta gcgttgggtt gcgaaaggcc ttgtggtact gcctgatagg 300
171 gtgcttgcca gtgccccggg aggtctcgta gaccgtgcac catgagcaca aatcctaaac 360
172 ctcaaagaaa aaccacaga aacactaacc gtcgcccaca agacgttaag tttccgggcg 420
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180 &lt;213&gt; ORGANISM: Hepatitis C virus

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184 cttcacgcag aaagcgtcta gccatggcgt tagtatgagt gtcgtacagc ctccaggccc 120
185 cccctcccg. ggagagccat agtgggtctgc ggaaccgggt agtacaccgg aattgccggg 180
186 aagactgggt cttttcttgg ataaaccac tctatgcccg gccatttggg cgtgcccccg 240
187 caagaccgct agccgagtag cgttgggttg cgaaaggcct tgtggtactg cctgataggg 300
188 tgcttgcgag tgccccggga ggtctcgtag accgtgcacc atgagcaca atcctaaacc 360
189 tcaaagacaa accaaaagaa acaccagccg tcgccacaa gacgttaggt ttccgggcgg 420
190 cggccagatc gttggcggag tatacttgtt gccgcgcagg ggccccaggg tgggtgtgag 480
191 cgcgacaagg aagacttcgg                                     500

```

194 &lt;210&gt; SEQ ID NO: 11

195 &lt;211&gt; LENGTH: 500

196 &lt;212&gt; TYPE: DNA

197 &lt;213&gt; ORGANISM: Hepatitis C virus

199 &lt;400&gt; SEQUENCE: 11

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200 gcccgcctcc tgatgggggc gacactccgc catgaatcac tcccctgtga ggaactactg 60
201 tcttcacgca gaaagcgtct agccatggcg ttagtatgag tgtcgtacag cctccaggcc 120
202 cccctccccc gggagagcca tagtgggtct cggaaccggg gtagtacacc gaattaccgg 180
203 aaagactggg tcctttcttg gataaaccca ctctatgtcc ggtcatttgg gcacgcccc 240
204 gcaagactgc tagccgagta gcgttgggtt gcgaaaggcc ttgtggtact gcctgatagg 300
205 gtgcttgcga gtgccccggg aggtctcgta gaccgtgcat catgagcaca aatcctaaac 360
206 ctcaaagaaa aaccaaagaa aacacaaacc gccgccacaa ggacgttaag ttcccgggtg 420
207 gcggtcagat cgttggcgga gtttacttgc tgccgcgcag gggccccagg ttgggtgtgc 480
208 gcgcgacaag gaagacttct                                     500

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211 &lt;210&gt; SEQ ID NO: 12

212 &lt;211&gt; LENGTH: 311

213 &lt;212&gt; TYPE: DNA

214 &lt;213&gt; ORGANISM: Hepatitis C virus

216 &lt;400&gt; SEQUENCE: 12

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217 gcgtgtctca tgccccggcc cgctgggtct ggttttgcct actcctgctc gctgcagggg 60
218 taggcatcta cctcctcccc aaccgatgaa ggttggggta aacactccgg cctcttaagc 120
219 catcttctgt tttttttttt tttttttttt tttttttctt tttttttttc tttcctttcc 180
220 ttcttttttt cttttctttt tcccttcttt aatgggtggc ccatcttagc cctagtcacg 240
221 gctagctgtg aaagggtccg gagccgcatg actgcagaga gtgctgatac tggcctctct 300
222 gcagatcatg t                                     311

```

225 &lt;210&gt; SEQ ID NO: 13

226 &lt;211&gt; LENGTH: 371

227 &lt;212&gt; TYPE: DNA

228 &lt;213&gt; ORGANISM: Hepatitis C virus

230 &lt;400&gt; SEQUENCE: 13

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231 gtccagctgg ttctgtggct gttacagcgg gggagacata tatcacagcc tgtctcgtgc 60
232 ccgaccccg cgggttcatgt tgtgcctact cctactttca gtaggggtag gcatctacct 120
233 gctccccaac cgataaacgg ggagctaaac actccaggcc aataggccat ttcttttttt 180
234 tttttttttt tttttctttt tttttttttt tttttttttt tttttttttt tttttttttt 240
235 ctttcttttg tttttttttt ttttcttctt tttgggtggc ccatcttagc cctagtcacg 300
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247 tccagctggg tcaactgtcg cgccggcggg ggcgacattt atcacagcgt gccgcgtgcc 120
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253 gtatctctgc agatcatgt 439
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257 <211> LENGTH: 347
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259 <213> ORGANISM: Hepatitis C virus
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263 gccgcgtgcc cgaccccgct tattactcct tggcctactc ctactttttg taggggtagg 120
264 ccttttccta ctccccgctc ggtagagcgg cacacattag ctacactcca tagctaactg 180
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266 ttctttctct gtggctccat cttagcccta gtcacggcta gctgtgaaag gtccgtgagc 300
267 cgcagtactg cagagattgc cgtaactggg atctctgcag atcatgt 347
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271 <211> LENGTH: 360
272 <212> TYPE: DNA
273 <213> ORGANISM: Hepatitis C virus
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278 tttactcccc gctcggtaga ggcgcacaca ttagctacac tccatagcta actgttcctt 180
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**VERIFICATION SUMMARY**

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L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date